

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-297373

(43)Date of publication of application : 24.10.2000

(51)Int.Cl. C23C 16/27
F01L 1/20
F16H 53/06

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(54) SLIDING MEMBER AND ITS PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a sliding member having a low friction coefficient and excellent in wear resistance by making it into the one whose solid lubricity effectively functions even in lubricating oil.

SOLUTION: As to a hard carbon film sliding member 1 the surface of a base material 2 is coated with a hard carbon film 3 by vapor phase synthesis, which is thereafter subjected to plasma treatment or ion implantation, by which the surface of the hard carbon film 3 is incorporated with nitrogen and/or oxygen and/or is provided with the hard carbon film 3 in which the content of hydrogen in the surface is controlled to ≤ 10 at%.

